Storage Options

8 Channel DVR

Instruction Manual

Storage Options

For the latest, up-to-date manual, please visit
storageoptions.com

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER.

NO USER SERVICABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: **TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE**

CAUTION: **TO PREVENT ELECTRIC SHOCK, ENSURE THE PLUG IS FULLY INSERTED INTO A MAINS SOCKET**

IMPORTANT SAFEGUARD

All lead-free products offered by the company comply with the requirements of the European law of the Restriction of Hazardous Substances (RoHS) directive, which means our manufacturing processes and products are strictly "lead-free" and without the hazardous substances cited in the directive.

The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product's end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste. Contact your local dealer for procedures for recycling this equipment.

DISCLAIMER

We reserve the right to revise or remove any content in this manual at any time. We do not warrant or assume any legal liability or responsibility for the accuracy, completeness, or usefulness of this manual. The content of this manual is subject to change without notice.

RECOMMENDATIONS

- ***AVOID DUSTY LOCATIONS:*** Excessive build-up of dust may cause the unit to fail.
- ***INSTALL IN VENTILATED SPACE:*** Ensure adequate airflow around the DVR to prevent overheating.
- ***DO NOT EXPOSE TO MOISTURE:*** Exposing the unit to water poses high risk of electric shock.
- ***DO NOT DROP:*** Doing so could damage internal components.
- ***DO NOT OPEN CHASSIS:*** No user-serviceable parts inside.

TRADEMARK ACKNOWLEDGEMENTS

- Internet Explorer, Microsoft & Windows are registered trademarks of Microsoft Corporation.
- Apple, iPhone, iPad and iTunes are registered trademarks of Apple Computer, Inc.

DEFAULT PASS CODE INFORMATION

By default, pass codes are disabled on the system. You do not need to enter a pass code when accessing any menus. For security purposes, it is highly recommended to enable pass codes via the Password Menu.

WARRANTY AND TECHNICAL SUPPORT

In the event that you need further assistance with this product you can call us, at local UK rate on the number below and our UK-based experts will be happy to help you (they're available Mon-Fri 9am – 5.30pm, excluding bank holidays). Alternatively visit our website at www.storageoptions.com/support or send us an email at the address below.

This product is backed by a 12 month warranty to cover the unlikely event of something going wrong. Should you suspect a fault with your product please contact our support team in the first instance.

UK: 0844 248 7191
Ireland: 00353 (0) 94 937 4026
E-Mail: support@storageoptions.com

TABLE OF CONTENTS

QUICK START GUIDE **6**
- 1.1 – Basic Connectivity 6
- 1.2 – Wall Mounting A Camera 7
- 1.3 – Power Connection Diagram 8

OVERVIEW **9**
- 2.1 – System Overview 9
- 2.2 – Environment Adaptability 9
- 2.3 – Recording Capacities 9

CONVENTIONS USED IN THIS MANUAL **10**

PACKAGE CONTENTS **10**

SYSTEM CONNECTION **11**
- 5.1 – Connectivity Diagram 11

BASIC OPERATION **12**
- 6.1 – Front Panel 12
- 6.2 – Rear Panel 13
- 6.3 – Remote Control 14
- 6.4 – Mouse Control 15
- 6.5 – Using The Sub Menu 15
- 6.6 – Power On / Off 16
- 6.7 – Pass Codes 16
- 6.8 – Format The Hard Disk Drive 16
- 6.9 – System Login 16
- 6.10 – Playback 17
- 6.11 – On-screen Playback Controls 17

BASIC MENU FUNCTIONS **18**
- 7.1 – Main Menu 18
- 7.2 – Search 19
- 7.3 – File List 20
- 7.4 – Backup 21
- 7.5 – Record Mode 22
- 7.6 – Recording Schedule 24
- 7.7 – HDD Management 25
- 7.8 – Basic Setup 26
- 7.9 – Language 26
- 7.10 – Date / Time 27
- 7.11 – Daylight Saving Time 27
- 7.12 – Password 28
- 7.13 – User Permissions 29
- 7.14 – Display 30
- 7.15 – Preview 31
- 7.16 – Video / Audio 31
- 7.17 – Volume Setup 31

TABLE OF CONTENTS (CONTINUED)

ADVANCED MENU FUNCTIONS **32**

8.1 – Advanced Setup 32
8.2 – Alarm 33
8.3 – E-Mail Setup 34
8.4 – System Info 35
8.5 – Motion Detection 35
8.6 – Mobile 36
8.7 – System 37
8.8 – Firmware Upgrade 38
8.9 – Parameter Export 38
8.10 – Parameter Import 38
8.11 – Pan Tilt Zoom (PTZ) 39
8.12 – Network 40
8.13 – DDNS 41
8.14 – UPnP 42

REMOTE SURVEILLANCE SOFTWARE **43**

9.1 – Using Remote Surveillance 44
9.2 – Main Screen 45
9.3 – Live View 46
9.4 – Recording 46
9.5 – Sub Menu 46
9.6 – PTZ Control 47
9.7 – Screen Captures 47
9.8 – Playback 48
9.9 – Search 49
9.10 – Remote Backup 49
9.11 – Remote Setup 50
9.12 – Record 50
9.13 – Alarm Setting 51
9.14 – PTZ 51
9.15 – Network 52
9.16 – Setting 52
9.17 – Maintenance 53
9.18 – Host Info 53

SOFTWARE CD **54**

USING MEYE FOR MOBILE VIEWING **55**

HARD DISK DRIVE INSTALLATION **56**

TROUBLESHOOTING **57**

APPENDIX – PRODUCT SPECIFICATION **58**

QUICK START GUIDE

1.1 – BASIC CONNECTIVITY

To get started quickly with the Storage Options 8 Channel CCTV DVR, follow these instructions:

1. Connect a camera to the "Video In 1" socket.

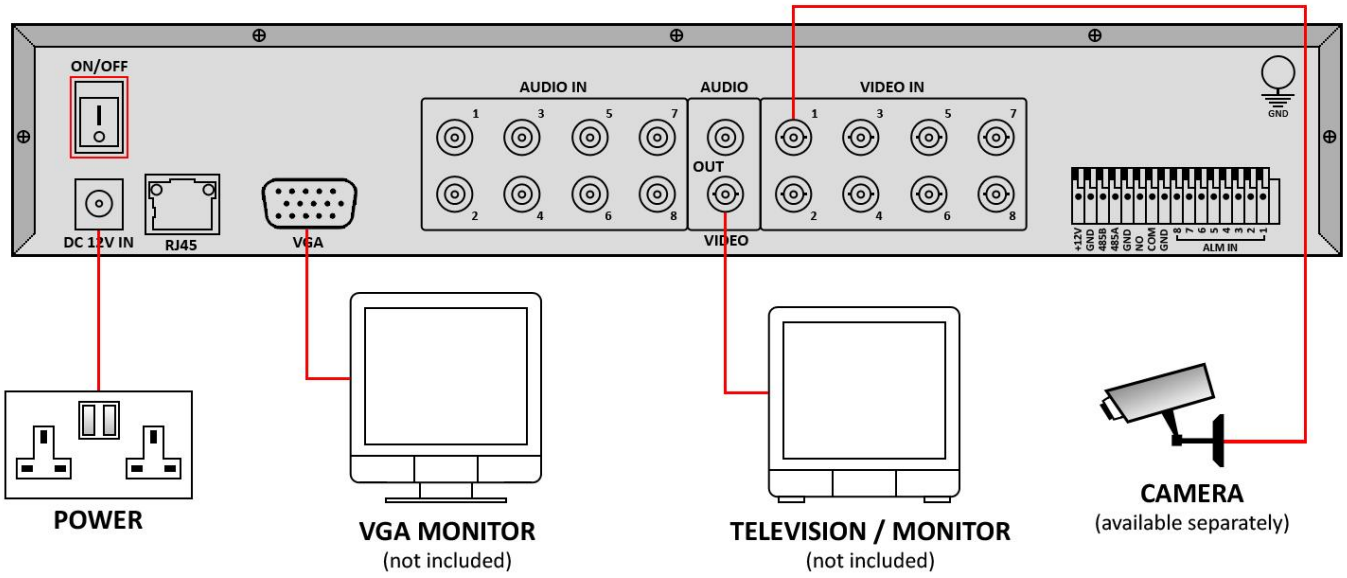
2. Connect a computer monitor to the "VGA" socket.

   AND / OR

   Connect a television to the "Video Out" socket.

NOTE You must select the correct input on your monitor / television to view the DVR system. Refer to its manual for instructions on how to do this.

3. Connect the DVR and camera to a mains supply.
   Refer to section "*1.3 – Power Connection Diagram*" (page 8) for more information.



4. Switch on the DVR via the ON/OFF switch.
   Refer to section "*6.1 – Front Panel*" (page 12) for more information.

5. Set the date and time.
   Refer to section "*7.10 – Date / Time*" (page 27) for more information.

6. Format (prepare) the Hard Disk Drive (HDD).
   Refer to section "*7.7 – HDD Management*" (page 25) for more information.

1.2 – WALL MOUNTING A CAMERA

Each Storage Options camera is supplied with a mounting kit for attaching it to a wall. Before you affix the camera in position, please ensure the cable is of adequate length to reach the DVR.

To mount the camera on a wall or ceiling, follow these instructions:

1. Ensure the surface you want to mount the camera on is solid and can support the weight.
2. Accurately mark on the wall the position of the holes to be drilled.
3. Drill to the correct depth in the wall, as indicated by the plugs.
4. Insert plugs into the drilled holes.
5. Secure the bracket to the wall using the provided screws.

To attach the camera to the bracket:

1. Screw it onto the exposed thread.
2. Tighten the bolt to lock it in place.

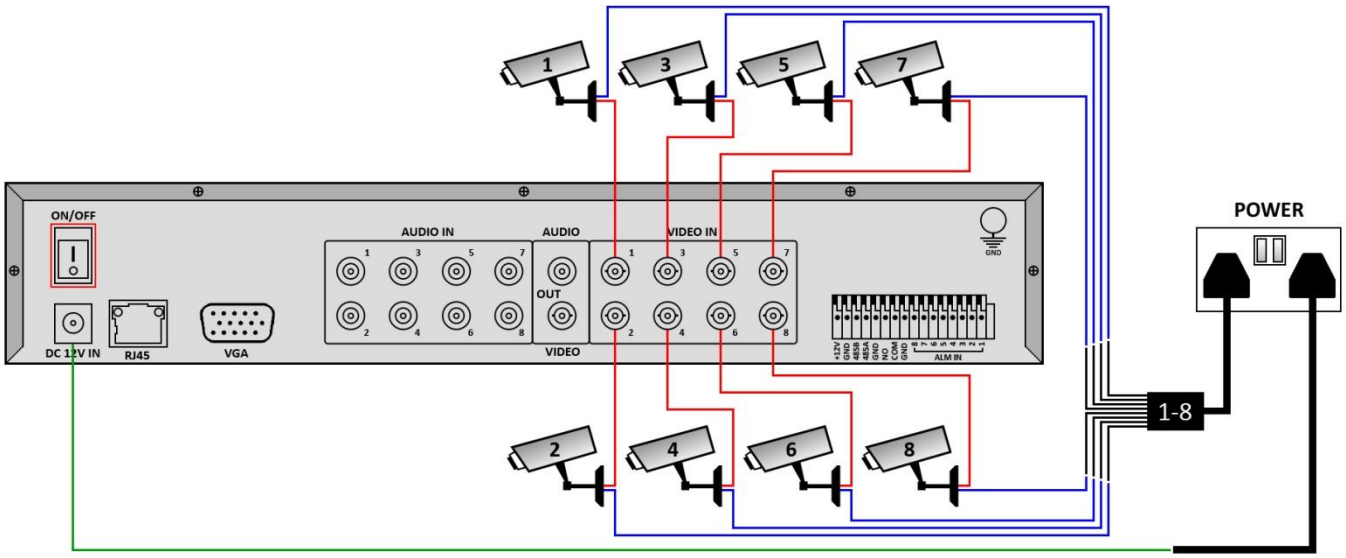
To adjust the camera's position, turn the bolt arms anti-clockwise to release the corresponding point of adjustment, position the camera, then turn the bolt arms clockwise to re-tighten.

1.3 – POWER CONNECTION DIAGRAM

This system is supplied with two mains adapters:

1. Mains adapter specifically for the DVR.
2. Multi-power adapter to connect up to 8 cameras to a single mains socket.

Connect power to the DVR and cameras as shown in this diagram:



BLUE = Camera mains connection
GREEN = DVR mains connection
RED = Video connection

The multi-power adapter has 8 separate cables which join to plug into one mains socket. These are used for connecting power to each Storage Options camera.

CAUTION The 1-8 power splitter is designed for use ONLY with Storage Options cameras! DO NOT attempt to connect other brands as this may present a risk of fire!

Each Storage Options CCTV camera (sold separately) also comes with its own mains adapter should you wish to plug them all in separately, or in different locations.

To connect to mains power:

1. Connect each of the 8 cables to the power sockets on up to 8 Storage Options cameras.
2. Connect the DVR mains adapter to the “DC 12V” socket on the DVR rear panel.
3. Connect the mains adapters to suitable 3-pin mains sockets.

OVERVIEW

2.1 – SYSTEM OVERVIEW

Storage Options presents a complete CCTV solution for home or office security, featuring up to eight high-quality cameras, internal HDD, easy setup and configuration, alarm triggers, and network connectivity.

- H.264 video compression
- Twin USB interface – USB2.0 for data backup, USB1.1 for mouse operation
- 3.5” SATA HDD (up to 2TB compatible)
- 16 bit colour translucent user-friendly GUI, with notes for selected menu items
- Supports live view, parameter setting and backup via network interface

2.2 – ENVIRONMENT ADAPTABILITY

For safety while using the DVR and to prolong the device’s useful life, please pay attention to the following details:

1. When installing the device, please comply with all the electric product safety criteria.

2. Power and ground:
   - Do not touch the DVR or mains adapter with a wet hand.
   - Do not drop liquid on the DVR or mains adapter.
   - Do not put any object on the DVR.
   - Please use a soft, dry cloth to clean the DVR; do not use chemical cleaning fluids.
   - The DVR will have voltage before start-up if the mains adapter is connected to a mains socket.
   - Please unplug the mains adapter from its socket if the DVR is not going to be used for a prolonged period of time.

2.3 – RECORDING CAPACITIES

This table shows the amount of recording time (in days*) of the DVR, depending on which size HDD is installed and how many cameras are connected:

		Number of Cameras							
		1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
HDD Capacity	**500GB**	100	50	33	25	20	17	14	13
	1TB	200	100	66	50	40	33	29	25
	2TB	400	200	132	100	80	67	57	50

* All values are approximate. Actual results may vary according to recording conditions.

CONVENTIONS USED IN THIS MANUAL

At various points in this manual you will see highlighted text. Please refer here for an explanation:

NOTE	Important notes are highlighted in blue.
TIP	Tips on best practice are highlighted in green.
CAUTION	Important cautions and warnings are highlighted in red.

Unless otherwise stated, all functionality described in this manual is performed using the USB mouse.

PACKAGE CONTENTS

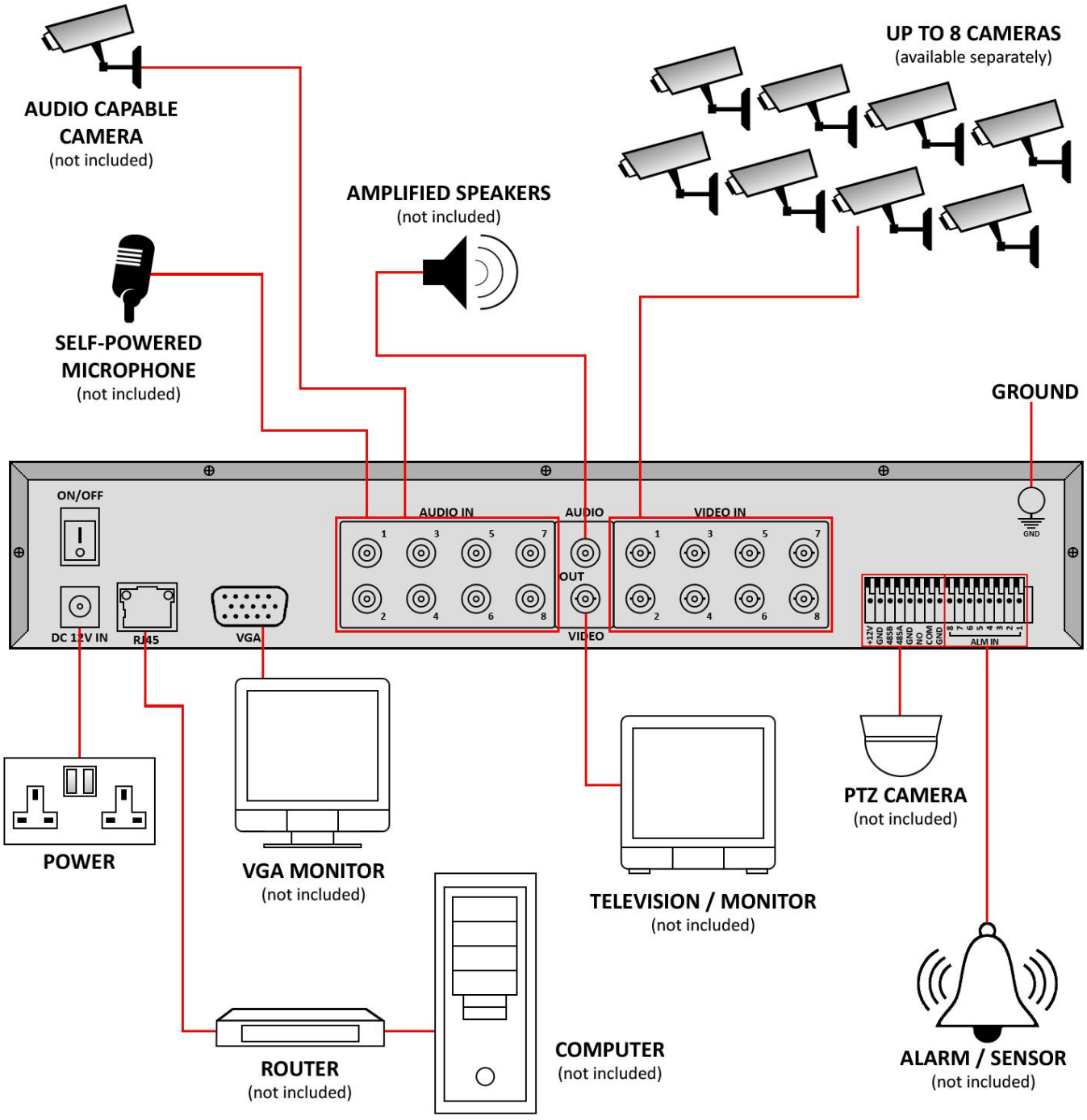
Check the contents of your DVR package against this checklist. If anything is missing or damaged, please do not use the system, and inform your supplier as soon as possible.

- ☐ DVR
- ☐ DVR power supply
- ☐ Camera power supply
- ☐ 1-8 power splitter cable
- ☐ Remote control
- ☐ Mouse
- ☐ Software CD
- ☐ Instruction Manual
- ☐ Screws and plugs

SYSTEM CONNECTION

5.1 – CONNECTIVITY DIAGRAM

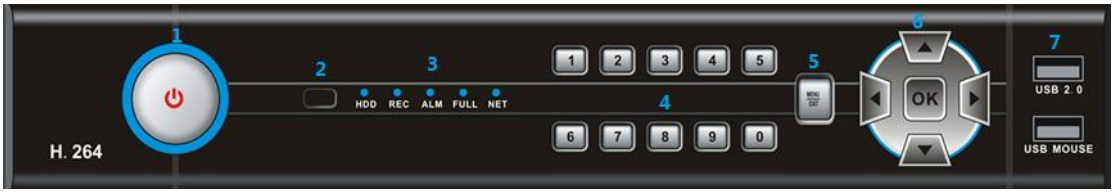
Refer to the following diagram for how to connect the DVR system.



Refer to section "*1.3 – Power Connection Diagram*" (page 8) for more information on connecting to a mains socket.

BASIC OPERATION

6.1 – FRONT PANEL



1. **POWER**: Press to turn the system on / off (ensure the rear panel ON/OFF switch is in the "on" position).

2. **IR SENSOR**: IR receiver for the remote control. Do not cover.

3. **LED INDICATORS**: Shows status of HDD activity, recording, alarm, network and power.

LABEL	COLOUR	DESCRIPTION
HDD	**ORANGE**	Flashes to indicate HDD activity.
REC	**RED**	Indicates whether the DVR is currently recording.
ALM	**RED**	Lights to indicate an alarm trigger has occurred.
FULL	**RED**	Lights to indicate the HDD is full.
NET	**GREEN**	Flashes to indicate network traffic.

4. **CHANNEL NUMBERS / PLAYBACK**: Press buttons 1-8 to view the selected channel in full-screen.

During playback, press the following:

BUTTON	DESCRIPTION
6	Rewind. Press multiple times for 2x / 4x / 8x.
7	Freeze playback to one frame, then press again to advance frame-by-frame.
8	Play video.
9	Slow playback speed by 1/2, 1/4, 1/8.
0	Fast forward. Press multiple times for 2x / 4x / 8x.

5. **MENU / EXIT**: Press to open / close the main menu.

6. **NAVIGATION / OK**: Press the navigation buttons (↑, ↓, ←, →) to highlight menu options. Press OK to confirm selections.

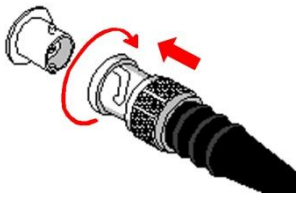
7. **USB**: Connect a USB flash drive to the top port (labelled "USB 2.0") for data backup and firmware upgrades. Connect a USB mouse to the bottom port (labelled "USB MOUSE") for mouse control of the system.

6.2 – REAR PANEL

Refer to the diagram and table below for information on the DVR's various connections.

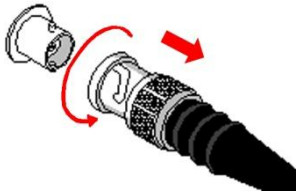
REFERENCE	PHYSICAL CONNECTOR	DESCRIPTION
1	POWER input	DC 12V / 3A
2	RJ45	Connect to a computer network
3	VGA output	Connect to a monitor with VGA (D-Sub) input
4	Video output	Connect to a TV or monitor (BNC)
5	Alarm input	8x I/O alarm input
	Alarm output	I/O alarm output
	RS485	Connect to PTZ camera
6	Audio input	Connect audio input (phono)
7	Audio output	Connect audio output (phono)
8	Video input	8x numbered video inputs for cameras (BNC)

To connect a camera via BNC:



1. Align the BNC connector with the notches on the BNC socket and slide into place.
2. Rotate the BNC connector clockwise until it locks in place.

To disconnect a camera:



1. Apply pressure to the BNC connector, then rotate anti-clockwise.
2. Slide the BNC connector away from the socket.

6.3 – REMOTE CONTROL

The remote control can be used for navigating system menus. When using the remote control, the OK key performs the same functions as left-clicking the mouse.

To use the remote control with the DVR system:

1. Insert 2x AAA 1.5V alkaline batteries (not included) into the back of the remote control. Please ensure correct orientation.

2. Refer to the below diagram for button functions:

REF	BUTTON	DESCRIPTION
1	**STANDBY**	Press to turn the DVR on / off
2	**LOGIN / LOCK**	If Security is enabled in the Setup menu, press to open the user pass code login screen
3	**NUMBERS**	In menus, press 0-9 to enter values In live view, press 1-8 to view channels in full-screen display mode
4	⊞	Press to switch between quad and split-screen display modes
5	**MENU**	Opens the main menu
6	**PTZ**	Opens the Pan Tilt Zoom (PTZ) controls
7	**EXIT**	Press to close menu windows
8	**NAVIGATION / OK**	Use ↑, ↓, ←, → to highlight menu options Use OK to confirm selections
9	**+ / –**	In menus, press to adjust values
10	**RECORD**	Press to start manual recording
11	**STOP**	Press to stop manual recording
12	**EXTRA**	N/A
13	**PLAYBACK CONTROL**	See section "*6.1 – Front Panel*" (page 12) for more information

TIP When using the remote control to enter password and camera titles, select the field using the navigation buttons, press ENTER, and then press the number buttons. Press Menu to confirm.

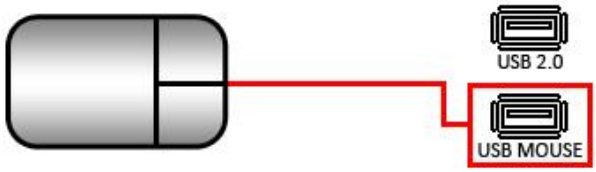
6.4 – MOUSE CONTROL

The mouse can be used for navigating system menus.

NOTE Unless otherwise stated, all system functions described in this manual are achieved through mouse input.

To use a mouse with the DVR system:

- Connect the mouse to the lower USB port located on the front panel (labelled “USB MOUSE”).



Left Button:	Click to select a menu option. During live viewing, double-click on a channel to view it in full-screen. Double-click the channel again to return to split-screen grid view.
Right Button:	Click to open the Sub Menu.
Scroll Wheel:	Forward – switch to VGA. Backward – switch to CVBS.

6.5 – USING THE SUB MENU

When using the mouse, open the Sub Menu to access system options, including the Main Menu and PTZ control.

1. Right click anywhere on screen to open the Sub Menu.
2. To close the menu, left-click anywhere on screen (outside the menu).

MAIN MENU:	Opens the system menu
KEYLOCK:	Locks the front panel buttons
CHN SWITCH:	Select split-screen display type
VIDEO SEARCH:	Open the Search Menu to view previously recorded video
PTZ:	Opens the PTZ control menu
MUTE:	Mute audio on the system
MANUAL REC:	Start manual recording
STOP REC:	Stop manual recording
ROTATION:	Video rotation
STANDBY:	Set the system into standby mode

6.6 – POWER ON / OFF

To power the system on, connect the power cable to the DC 12V port on the rear panel. At start-up, the DVR performs a basic system check and runs an initial loading sequence. After a few moments, it will load a live display view.

The system can also be put into standby mode. It will still receive power but will not record anything until brought back into operation mode.

1. To put the system in standby, press and hold the power button on the front panel or remote control until the on-screen prompt closes.

2. To wake the system from standby mode, press and hold the power button on the front panel or remote control until the DVR displays "System Initializing" on screen. The system will begin powering up.

6.7 – PASS CODES

By default, pass codes are disabled on the system. You do not need to enter a pass code when accessing any menus. For security purposes, it is highly recommended to enable pass codes via the Password Menu.

6.8 – FORMAT THE HARD DISK DRIVE

This DVR uses a Hard Disk Drive (HDD) to record and store video footage. You must format the HDD before it can be used to record video.

Go to *Main Menu* → *HDD* →*HDD Format*, to prepare the drive for use. Refer to section "*7.7 – HDD Management*" (page 25) for instructions on how to do this. After formatting is complete, follow the on-screen prompts to restart the system.

NOTE If no HDD is installed, or the HDD is not formatted, a red "**H**" symbol will be displayed on screen.

6.9 – SYSTEM LOGIN

To open the main menu, press the MENU / EXIT button on the remote control or front panel of the system. Alternatively using the mouse, right-click anywhere on screen to open the Sub Menu, then select MAIN MENU.

NOTE If pass codes are enabled on the system, you need to select your Device ID and enter the 6-digit numerical pass code to open the main menu.

6.10 – PLAYBACK

The Search Menu can be used to view previously recorded footage.

To begin playback:

1. Right-click anywhere on screen and select VIDEO SEARCH from the sub menu.

NOTE When the Search Menu is first opened, it displays the current month and date.

2. Click PLAY to begin playback of the last minute of recorded video (quick search).

   OR

   Under CHN select a specific channel or select ALL.

3. Under DATE, enter a date using the virtual keyboard (mouse only).
4. Click SEARCH. Alarm / motion detected events will appear as **red**. Normal recordings will appear as **green**.
5. Click a date in the month grid to search for video files.
6. Click a time block in the Hour Grid to view the video. Playback will begin.

NOTE Only single channel full-screen playback is available on 8 channel DVR.

7. Move the mouse to display the on-screen playback controls. You can also use the playback control buttons on the remote control or system front panel.

6.11 – ON-SCREEN PLAYBACK CONTROLS

To use on-screen playback controls:

1. Click the VCR-like controls to play, pause, fast forward, rewind, and slow playback.
2. Drag the slider to adjust the volume (requires audio-capable camera, not included). Select the box to mute audio.
3. Click X to quit playback and return to the Search menu.

BASIC MENU FUNCTIONS

7.1 – MAIN MENU

The main menu displays options for controlling every feature of the DVR. See below for an explanation of each of the options on the main menu.

1. **SEARCH**: Search for previously recorded video on the system.
2. **RECORD**: Configure recording options (quality, resolution), set record modes, and enable / disable audio recording.
3. **HDD**: Display HDD status and format the internal hard drive.
4. **BASIC**: Set the system language, date & time, Device IDs and passwords, configure AV settings, etc.
5. **ADVANCE**: View system info, configure alarm, motion detection, PTZ, mobile, network settings.
6. **EXIT**: Closes the Main Menu.
7. Information related to the contents of the highlighted menu item is displayed here.

7.2 – SEARCH

Use this function to search for and play back previously recorded video on the DVR system. When the Search menu is opened for the first time, it will display the current date and time.

To perform a quick search, simply open the SEARCH menu and click PLAY. The last 60 seconds of recorded playback will begin.

To perform a date and time search:

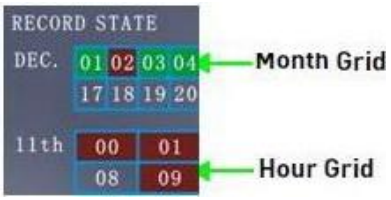
1. Under CHN, select individual channels or select ALL.

2. Under DATE, enter a desired date using the virtual keyboard, then click SEARCH. The system will search for any related recordings.

3. Under RECORD STATE, the system shows recorded events in a month grid and an hour grid. The selected day of the month will be outlined in red.

   GREEN = normal recording
   RED = alarm recording (both alarm & motion events)

4. Select a date in the month grid to view recorded video files for that date in the hour grid.



5. During playback, use the onscreen controls or the playback buttons on the remote control / front panel to control video transport.

7.3 – FILE LIST

Use the File List sub menu to see a detailed list of all the recorded video on your system. To open the file list:

1. From the Search menu, click SEARCH to find recorded video.
2. Select FILE LIST at the bottom of the menu. The File List menu will open.
3. Highlight the required file and select it to begin playback.

To use the File List:

1. Under TYPE, select NORMAL to view only normal recordings, ALARM to view triggered recordings (alarm and motion detection), or ALL to view all videos.
2. Use the buttons on the right side of the panel to navigate the file list:

FIRST:	Jump to the first page of the list.
PRE:	Return to the previous page.
NEXT:	Move forward to the next page.
LAST:	Jump to the last page of the list.
ALL:	Select all files.
OTHER:	Invert current file selection.
BACKUP:	After selecting a file(s), click BACKUP to begin copying the data to a USB flash drive (not included).
EXIT:	Exit the File List menu.

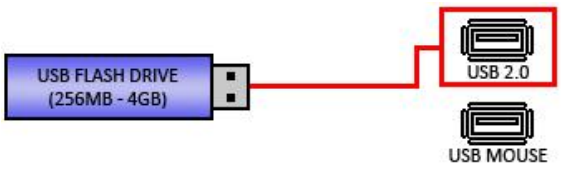
7.4 – BACKUP

Use the File List sub menu to find recorded video on your system and copy it to a USB flash drive (not included).

NOTE The system is compatible with most major brands of USB flash drives, with capacities from 256MB to 4GB.

To back up recorded data:

1. Connect a blank USB flash drive to the top USB port on the front panel of the system.

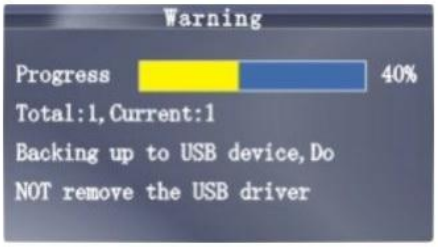


2. Open the Search menu and search for recorded data on the system.
3. Click FILE LIST.
4. Click the "BAK" box next to a file name to mark it for backup. Select multiple files if needed. Click ALL to select all files. Click OTHER to invert the current file selection.

TIP The size of each file is shown in the File List menu. Use this to help you choose a USB flash drive large enough to hold all the files you wish to back up.

5. Click BACKUP from the side panel to immediately begin copying the selected files to the USB flash drive. Backup progress appears in the status window.

CAUTION DO NOT remove the USB flash drive during backup – doing so may damage it or cause file corruption.



When there is not enough free space on the USB flash drive, the system will prompt “Space not enough”.

If this event occurs, please replace the USB flash drive with another that has adequate free space.

You can remove the USB flash drive when the backup is finished.

7.5 – RECORD MODE

Use this page to configure recording parameters and enable / disable audio.

NOTE Audio capable cameras (not included) are required for audio recording.

RECORD
CHANNEL CH1 CH2 CH3 CH4
RECORD ON ON ON ON
RESOLUTION CIF CIF CIF CIF
BITRATE L L L L
FRAMERATE 25 25 25 25
AUDIO ON
REC. MODE POWER UP
REC. SIZE 30MIN
NEXT PAGE DEFAULT APPLY EXIT

To configure recording options:

1. Under CHANNEL, use the drop-down menus and select ON / OFF to enable / disable recording from the selected channel.

2. Under resolution, select CIF, HD1 or D1.

		CIF	HD1	D1
PAL	**Resolution:**	352 x 288	704 x 288	704 x 576
	Frame rate (FPS):	25	25	25
NTSC	**Resolution:**	352 x 240	704 x 240	704 x 480
	Frame rate (FPS):	30	30	30

NOTE This DVR supports 2 channel D1 plus 6 channel CIF, or 8 channel HD1 recording.
It does not support 8 channel D1 recording.

3. Under BITRATE, select Low, Medium or High, in Kilobits per second (Kbps).

	LOW	MEDIUM	HIGH
CIF	384 Kbps	512 Kbps	768 Kbps
HD1	512 Kbps	768 Kbps	1024 Kbps
D1	896 Kbps	1024 Kbps	1280 Kbps

(continued...)

7.5 – RECORD MODE (CONTINUED)

4. Under FRAMERATE, it is possible to adjust in one frame per second increments.

5. Click NEXT PAGE to view and change settings for channels 5-8, and PREVIOUS PAGE to return to settings for channels 1-4.

6. Under AUDIO, select ON or OFF. If audio recording is enabled, the system will record audio from any connected audio-capable cameras (not included).

7. Under REC MODE, select POWER UP or TIMER RECORD.

POWER UP:	The system will start continuous recording as soon as it is powered on.
TIMER RECORD:	The system will record according to the customisable recording schedule.

8. Under REC SIZE, select 15MIN, 30MIN, 45MIN, or 60MIN.

TIP Instead of recording video data as one large file, this setting tells the system to divide the data into blocks of 15, 30, 45, or 60 minutes. This makes it much easier to search through and / or back up recorded data.

9. Click APPLY, then click CLOSE in the confirmation window.

10. Press EXIT on any open windows until they are all closed.

7.6 – RECORDING SCHEDULE

By default, the system is configured to record continuously, but it is possible to set it to record by customisable recording schedule instead.

The Schedule Grid shows the days of the week and hours 0-23. You can set alarm recording (**red**), general recording (**green**) or no recording (**blue**) to each time block of each day.

To set a recording schedule:

1. Open the Main Menu and click RECORD.
2. Under REC MODE, select TIMER RECORD.
3. Click SCHEDULE. The Schedule menu will open.
4. Under CHANNEL, select a specific channel(s) or select ALL.
5. Below the grid, click either ALARM (**red**), GENERAL (**green**), or NO RECORD (**blue**) and then click a time block on the desired day.
6. Use the FROM / TO drop-down menus to copy the schedule of one day to another.
   e.g. If you want your schedule for Monday to be the same on Wednesday: under FROM select MON, under TO select WED, and then click COPY.
7. Click SAVE.
8. Click EXIT in each menu until all windows are closed.

7.7 – HDD MANAGEMENT

This page displays essential information about the system's internal hard drive, and lets you format the HDD or a USB flash drive (not included).

HDD STATUS:	The system will display "OK" if the HDD is operating correctly, or "No Disk" if a HDD is not present.
SIZE:	Size (in Gigabytes, GB) of the internal HDD.
FREE SPACE:	The space (in Gigabytes, GB) remaining on the system's internal HDD.
AVAILABLE TIME:	Recording time remaining on the HDD based on current recording settings (e.g. resolution, quality, number of connected cameras).
OVERWRITE:	If enabled, the system will record over the oldest video data once the HDD is full. If disabled, recording will stop once the HDD is full and the "FULL" LED will light up on the system's front panel.
HDD FORMAT:	Erases and prepares the HDD for use.
U DISK FORMAT:	USB flash drives should always be formatted before use.

CAUTION **Formatting the HDD / USB flash drive will erase all data!** Once erased, the data cannot be restored, so be completely sure you have backed up any important data *before* formatting.

NOTE Failure to format the USB flash drive may result in improper functionality.

7.8 – BASIC SETUP

Use this page to set the system language, date and time, pass codes, and configure audio / video and display options.

The Basic Setup menu contains the following sub menus:

- Language
- Date / Time
- Password
- Display
- Video / Audio
- Exit

7.9 – LANGUAGE

To change the system language:

1. From the drop-down menu select ENGLISH or CHINESE

2. Click APPLY, then click CLOSE in the confirmation window.

NOTE The DVR will restart when you finish system language setup.

7.10 – DATE / TIME

It is highly recommended to set the date and time immediately when first setting up the system.

To set the date and time:

1. Click DATE / TIME and configure the following options:
   - **DATE**: Enter the day, month, and year
   - **DATE FORMAT**: Select DD/MM/YYYY, MM/DD/YYYY, or YYYY/MM/DD
   - **TIME**: Enter the time
   - **TIME FORMAT**: Use the drop-down menu and select 12HOURS or 24HOURS
   - **DST**: Use the drop-down menu to select ON/OFF to enable/disable Daylight Savings Time

2. Click MODIFY DATE AND TIME, then click CLOSE in the confirmation window.

3. Click APPLY to save the new date and time.

7.11 – DAYLIGHT SAVING TIME

To set daylight saving time:

1. Under DST, select ON. DST options will appear.

2. Under DST MODE select one of the following:
   - **CUSTOM**: Set customized start and end times for DST (go to step 4)
   - **DEFAULT**: Applies DST from second Sunday in March to second Sunday in November (go to step 3)

3. If using DEFAULT, simply click APPLY.

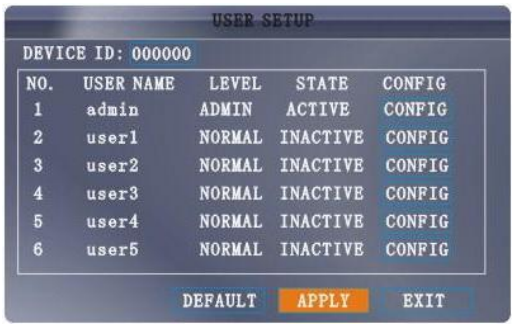
4. If setting a CUSTOM DST, use the drop-down menus to select a week and month for the start and end times.

5. Click APPLY, then click CLOSE in the confirmation window.

6. Click EXIT in each menu until all windows are closed.

7.12 – PASSWORD

The password page allows configuration of up to 6 accounts (1 admin, 5 normal users).


USER SETUP
DEVICE ID: 000000
NO. USER NAME LEVEL STATE CONFIG
1 admin ADMIN ACTIVE CONFIG
2 user1 NORMAL INACTIVE CONFIG
3 user2 NORMAL INACTIVE CONFIG
4 user3 NORMAL INACTIVE CONFIG
5 user4 NORMAL INACTIVE CONFIG
6 user5 NORMAL INACTIVE CONFIG
DEFAULT APPLY EXIT

The DEVICE ID is a unique numerical identifier (in the case that multiple DVRs are being used in one location).

For each user, the following settings are available:

1. **USER NAME**: Enter the user's name in this field.
2. **LEVEL**: Choose either ADMIN or NORMAL.

ADMIN:	The administrator has access to all system settings.
NORMAL:	Normal users have limited access to features.

3. **STATE**: Choose either ACTIVE / INACTIVE to enable or disable the account.
4. **CONFIG**: Use this page to set a pass code for the current user.

- **STATE**: Select whether the account should be ACTIVE / INACTIVE.
- **USER**: Enter the user's name (up to 8 characters).
- **PASSWORD ENABLE**: ENABLE / DISABLE the requirement for this user to provide a password.
- **PASSWORD**: Enter the password to be used.
- **CONFIRM**: Re-enter the password entered above to confirm.
- **PERMISSION**: See next page for User Permission configuration.

7.13 – USER PERMISSIONS

Click PERMISSION on the User Password Setup screen to open the User Permission menu.

Here it is possible to choose what the selected user has access to.

NOTE This page can only be adjusted by an admin account. Users can see but not change their permissions.

NEXT:	Continue to the next page of permissions.
ALL:	Select all permissions.
CLEAN:	Unselect all permissions.
APPLY:	Save the current permissions settings.
EXIT:	Return to the previous menu.

To configure user permissions:

1. Click the boxes to check the features which should be available to the user.

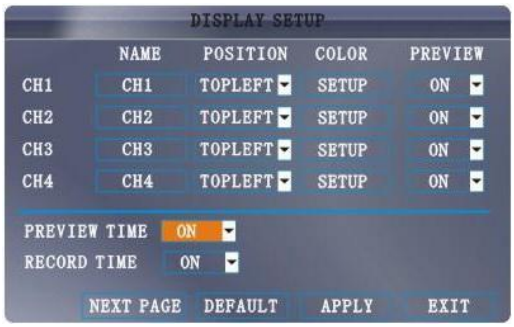
2. Click NEXT to continue to the next page and click the boxes to check more features.
   - Click ALL to check (allow) all features for this user.
   - Click CLEAN to uncheck (deny) all features for this user.

3. Click APPLY to save changes.

4. Click EXIT to close the menu.

7.14 – DISPLAY

Use the display setup menu to customise channel names, show / hide the date and time in live view and playback modes, and enable / disable preview channels.



NAME:	Enter a new title for the selected channel using the virtual keyboard.
POSITION:	Reposition the channel title.
COLOR:	Click SETUP to adjust chromaticity, luminosity, contrast and saturation for the selected channel.
PREVIEW:	Choose whether the channel can be seen if the monitor is in public view. See section "*7.15 – Preview*" (page 31) for more details.
PREVIEW TIME:	Select ON / OFF to show or hide the date and time during live view.
RECORD TIME:	Select ON / OFF to show or hide the date and time during playback.
DEFAULT:	Reset these settings to factory defaults.
APPLY:	Save changes made to these settings.
EXIT:	Return to the previous menu.

To customise display settings:

1. Configure the above options for channels 1-4.
2. Click NEXT PAGE, then configure settings for channels 5-8.
3. Click APPLY to save changes.
4. Click CLOSE in the confirmation window.

7.15 – PREVIEW

Preview channels can be very useful if your display monitor is in public view.

1. Choose a channel you wish to conceal. Under PREVIEW, select OFF.
2. Click APPLY to save changes. The selected channel will turn black (but what the camera sees will still record).
3. Click CLOSE in the confirmation window, then click EXIT in remaining menus until they are all closed.

7.16 – VIDEO / AUDIO

This page allows changes to the VGA output resolution and video system used by the DVR.

To configure video options:

1. Under VGA RESOLUTION, choose a setting which matches the attached monitor's native resolution.
2. Under CAMERA SYSTEM, select PAL or NTSC.

TIP Generally, PAL is used in the UK, France and Hong Kong, whereas NTSC is used in America and other territories. If you are unsure of the correct setting, leave it at the default.

3. Click APPLY to save changes.
4. Click EXIT to close the menu.

7.17 – VOLUME SETUP

1. Select VOLUME SETUP from the Video / Audio menu. A split-screen display view will appear.
2. Click any channel, then adjust the slider to increase or decrease volume for listen-in audio.
3. Click X to return to the Video / Audio Menu.
4. Click APPLY to save changes, then click CLOSE in the confirmation window.

ADVANCED MENU FUNCTIONS

8.1 – ADVANCED SETUP

Use the Advanced Setup menu to configure alarm settings, motion detection, mobile surveillance, PTZ settings and network settings.

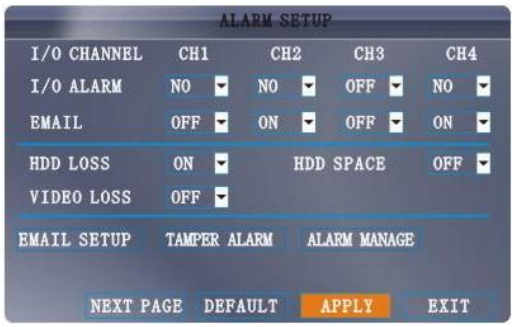
The Advanced Setup menu contains the following sub-menus:

- Alarm
- Info
- Motion Detection (MD)
- Mobile
- System
- Pan Tilt Zoom (PTZ)
- Network

8.2 – ALARM

The Alarm menu can be used to configure alarm and e-mail settings.

NOTE External alarm devices must be connected to the alarm block on the rear panel of the DVR in order to use the I/O alarms of the system.



To configure alarm settings:

1. Under I/O CHANNEL, select NO (Normal Open), NC (Normal Closed) or OFF.

2. Click NEXT PAGE to view additional channels and change their settings.

3. Apply loss alarms to the following:
   - **HDD LOSS**: The alarm will sound if the internal HDD is damaged.
   - **HDD SPACE**: If the overwrite function is disabled, the alarm will sound when the HDD is full.
   - **VIDEO LOSS**: The alarm will sound when a camera is disconnected.

4. Under ALARM MANAGE, configure the following:

   - **OUTPUT**: Choose the alarm output time (in seconds).
   - **BUZZER**: Set the time (in seconds) for the buzzer when the alarm is triggered.
   - **POST REC**: Set the length of time (in seconds) for the system to record after an alarm is triggered.

TIP Set the buzzer to 0s if you want to disable the alarm during motion detection.

5. Click APPLY to save changes, then EXIT to close the menu.

8.3 – E-MAIL SETUP

The DVR can send an e-mail notification with a JPEG (single frame) snapshot for triggered events.

To set up e-mail notification:

1. Under EMAIL, select ON.
2. Under SSL, select OFF.

NOTE SSL deals with encryption. Only advanced users should enable this option.

3. Under SMTP PORT, enter the SMTP port of your e-mail server.
4. Under SMTP, enter the SMTP address of your e-mail server (e.g. smtp.mail.com).
5. Under SEND EMAIL, enter your e-mail address (e.g. user@mail.com).
6. Under SEND PW, enter the password associated with the previously entered e-mail address.
7. Under RECV EMAIL, enter the e-mail address that you wish to receive the e-mail notification.
8. Click APPLY, then click CLOSE in the confirmation window.
9. Click EXIT to close the menu.

8.4 – SYSTEM INFO

This page shows system information, including the firmware version, MAC address, and system serial number. There are no user-configurable settings on this page.

8.5 – MOTION DETECTION

Each channel can be configured to record based on motion being detected in the frame.

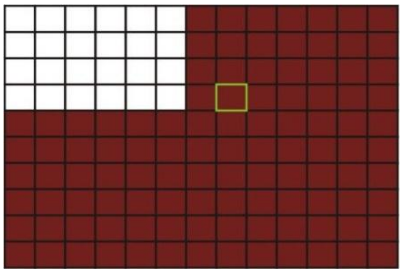
MOTION DETECT
MD CHANNEL CH1 CH2 CH3 CH4
STATUS ON OFF OFF OFF
SENSITIVITY 4 3 2 3
MD AREA SETUP SETUP SETUP SETUP
EMAIL ON OFF OFF OFF
NEXT PAEG DEFAULT APPLY EXIT

To configure motion detection:

1. Under STATUS, select ON to enable motion detection for that channel. Click NEXT PAGE for channels 5-8.
2. Under SENSITIVITY, select 1 (low), 2 (medium), 3 (high), or 4 (very high).
3. Under MD AREA, click SETUP. The red motion grid appears over the selected channel in full screen. Click the blocks in the grid to enable or disable motion detection.

RED = motion detection enabled
CLEAR = motion detection disabled.

4. Right-click anywhere on the screen to return to the Motion Detection menu.
5. Click APPLY to save changes, then click CLOSE in the confirmation window.
6. Click EXIT to close the menu.



8.6 – MOBILE

It is possible to view footage from the DVR on your smart phone.

TIP When using the mobile viewer application “MEye”, please ensure that the “Mobile Port” setting matches the port number on this page.

To configure notification settings:

1. Under MOBILE NETWORK, select 3G, 2.75G or 2.5G.
2. Under MOBILE PORT, enter an appropriate mobile port number (we recommend the default “100”).
3. Click APPLY to save changes, then click CLOSE in the confirmation window.
4. Click EXIT to close the menu.

8.7 – SYSTEM

Use the System menu to update system firmware and set an automatic system reset schedule.

To enable auto-reset:

1. Under AUTO RESET, select ON. The Settings option will appear.
2. Under SETTINGS, select EVERY DAY, EVERY WEEK or EVERY MONTH. The Date drop-down menu will appear.
3. Select the date for auto-reset from the drop-down menu.
4. Enter the time for auto-reset using the virtual keyboard (mouse only).
5. Click APPLY to save changes, then click CLOSE in the confirmation window.

To restore factory settings:

1. Click DEFAULT SETTINGS.
2. Click OK on the prompt.

NOTE When restoring factory settings, recorded video on the HDD will not be erased.

To restart the machine (soft-reset):

1. Click RESTART.
2. Click OK on the prompt. The system will perform a soft-reset and load to a live split-screen view.

8.8 – FIRMWARE UPGRADE

Occasionally a new firmware update may be issued for this DVR. Please check the Storage Options website for more information.

To upgrade firmware:

1. Copy the firmware file to an empty USB flash drive. The firmware file should be stored in the root of the drive.

2. Connect the USB flash drive to the top USB port on the front panel of the DVR (labelled “USB 2.0”).

3. Open the System Menu (Main Menu → Advance → System).

4. Click FIRMWARE UPDATE. The system will scan the USB flash drive and begin updating the firmware. Do not remove the USB flash drive while the upgrade is taking place.

After the upgrade is complete, the system will restart.

8.9 – PARAMETER EXPORT

Use this option to back up customised system settings to a USB flash drive.

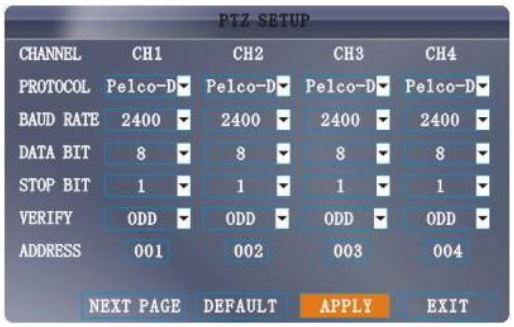
8.10 – PARAMETER IMPORT

Use this option to restore settings which have been backed up previously.

8.11 – PAN TILT ZOOM (PTZ)

Use the PTZ Setup menu to configure settings for a connected PTZ camera (not included).

NOTE Consult the instruction manual of your PTZ camera for information about your camera, including protocol and baud rate.


PTZ SETUP
CHANNEL CH1 CH2 CH3 CH4
PROTOCOL Pelco-D Pelco-D Pelco-D Pelco-D
BAUD RATE 2400 2400 2400 2400
DATA BIT 8 8 8 8
STOP BIT 1 1 1 1
VERIFY ODD ODD ODD ODD
ADDRESS 001 002 003 004
NEXT PAGE DEFAULT APPLY EXIT

To configure a PTZ camera:

1. Connect a PTZ camera to the BNC and 485A (TX, +) and 485B (RX, -) ports and power outlet.
2. Under PROTOCOL, select PELCO-D or PELCO-P for the selected channel.
3. Click NEXT PAGE to view and configure channels 5-8.
4. Under BAUD RATE, select 1200, 2400, 4800, or 9600.
5. Under DATA BIT select 5, 6, 7, or 8.
6. Under STOP BIT, select 1 or 2.
7. Under VERIFY, select ODD, EVEN, MARK, SPACE, or NONE.
8. Under ADDRESS, enter an address from 001-255 using the virtual keyboard. Refer to your PTZ camera`s instruction manual for further details.
9. Click APPLY to save changes, then click CLOSE in the confirmation window.
10. Click EXIT to close the menu.

8.12 – NETWORK

Use the Network Setup menu to configure network and DNS settings.

NOTE Your router must support UPnP functionality.

To configure network settings:

1. Under TYPE, select DHCP, PPPoE or STATIC (if unsure, choose DHCP as this is the most common).

   - For PPPoE, go to step 2
   - For STATIC, go to step 3
   - For DHCP, go to step 5

TIP DHCP allows you to quickly connect to your network by automatically obtaining an IP address from the router. After initial setup, we recommend you disable DHCP and manually set the IP address to static configuration. This ensures that port forwarding will not change in the event of power failure or resetting of your network.

2. If you selected PPPoE in step 1, enter your PPPoE user name and password in the respective fields using the virtual keyboard.

3. If you selected STATIC in step 1, enter a valid IP address, subnet mask, and gateway in the respective fields using the virtual keyboard.

4. If necessary, change the Media and Web ports.

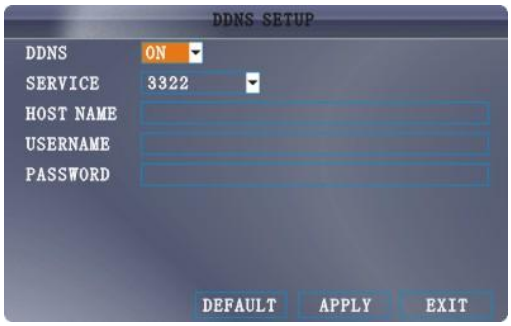
5. Click APPLY to save changes. Click CLOSE in the confirmation window.

6. Click EXIT on all other open configuration windows. The system will restart automatically.

8.13 – DDNS

A DDNS account allows you to set up a web site address that points back to your local network. A Web site address is easier to remember than a WAN IP.

NOTE You must register an account with a DDNS service provider prior to configuring DDNS settings on the DVR. Visit http://www.dyndns.com to register a free account.



To configure DDNS settings:

1. From the Network Setup menu, enter Primary or Secondary DNS from the WAN settings of your router in the MANUAL DNS field.
2. Click DDNS SETTINGS.
3. Under DDNS, select ON.
4. Under SERVICE, select 3322, DYNDNS or PERFECTEYES.
   (e.g. If you registered for a DynDNS account as instructed above, please choose DYNDNS for this option)
5. Under DOMAIN NAME, enter your DDNS domain from the confirmation email.
   (e.g. If your domain name is “user@dyndns.com”, you need to enter user@dyndns.com in the text field)
6. Enter your DDNS user name and password in the respective fields.
7. Click APPLY to save changes, then click CLOSE in the confirmation window.
8. Click EXIT. The system will tell you that it needs to restart. Click CLOSE to restart the DVR.

8.14 – UPNP

The UPnP Forum is an industry initiative designed to enable simple and robust connectivity among consumer electronics, intelligent appliances and mobile devices from many different vendors. As a group, they are dedicated to making the "connected home and lifestyle" mainstream experiences for consumers.

To configure UPnP settings:

1. Enable UPnP in your router (refer to your router's instruction manual for information on how to do this).
2. On the DVR, open the Main Menu and click ADVANCE.
3. Click NETWORK.
4. Under UPNP, select OPEN.
5. Click APPLY to save changes, then click OK on the confirmation window.
6. Using a remote computer, (i.e. not connected to the same network) open Internet Explorer browser.

NOTE If using Internet Explorer 9 Web browser, it may be necessary to enable "compatibility" mode.

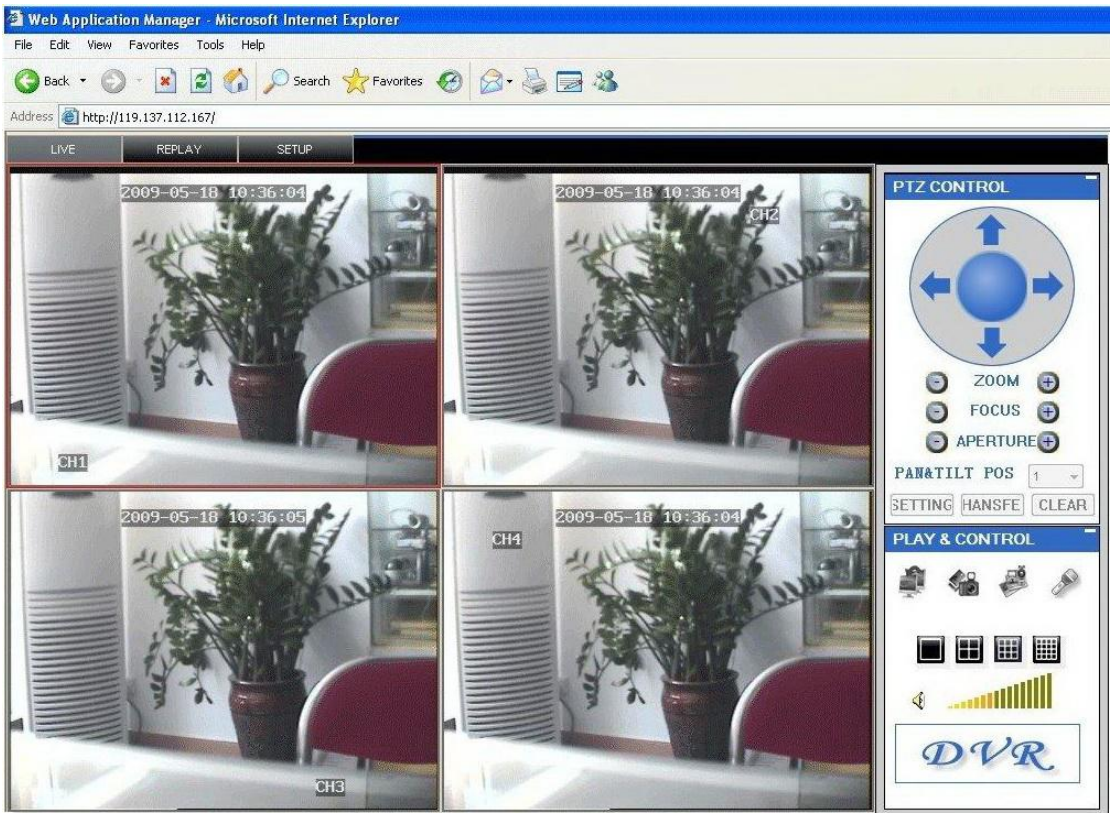
7. In the address bar, enter your router's WAN IP address, followed by a colon (":"), then the WEB PORT. (e.g. http://xxx.xxx.xxx.xxx:81)

TIP It is recommended to change the WEB PORT to something other than 80 (e.g. 81).

8. Enter your system admin password and select INTERNET, then click LOGIN.

REMOTE SURVEILLANCE SOFTWARE

The DVR features built-in browser based software which allows access to the system locally over the Local Area Network (LAN) or remotely over the Internet, using Internet Explorer.



Open Internet Explorer and type the DVR's IP address into the address bar, then press Enter to load the page. On first use, you will be prompted to install ActiveX controls. Please follow on-screen instructions and if you are given the option to block or allow any controls, please allow them.

To ensure stable use of these functions, it is recommended to only use the following operating systems and browsers:

SUPPORTED OPERATING SYSTEMS	RECOMMENDED WEB BROWSERS
Windows XP	Internet Explorer 6
Windows Vista	Internet Explorer 7
Windows 7	Internet Explorer 8

9.1 – USING REMOTE SURVEILLANCE

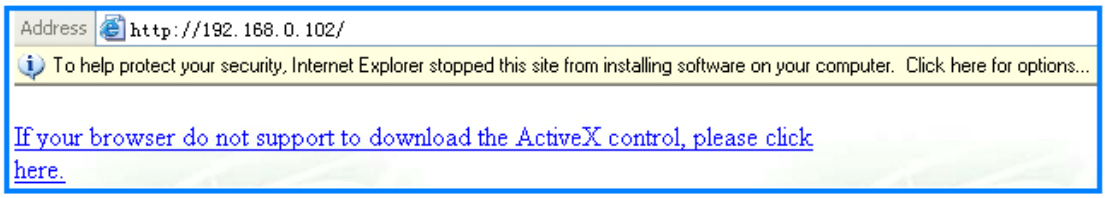
With your DVR connected to your Local Area Network (LAN), you can log in to the system using Internet Explorer browser.

NOTE The DVR must be connected to your local or wide area network before attempting remote access.

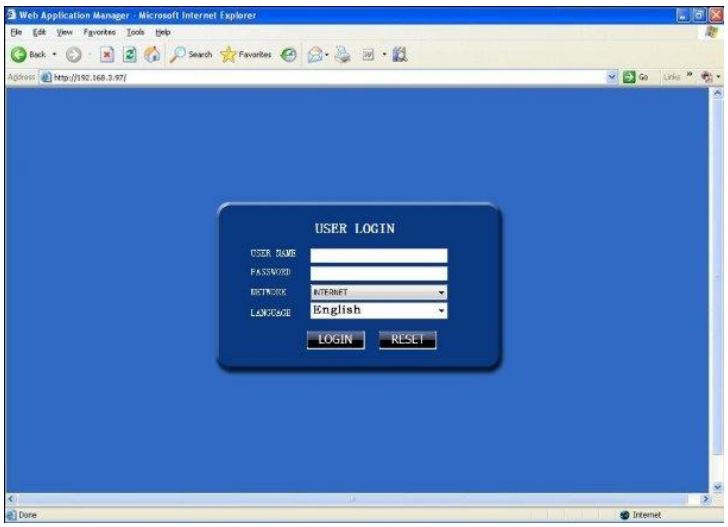
To Log Into The System:

1. Open Internet Explorer. In the address bar, enter the IP address of the DVR (e.g. http://192.168.0.10).

2. You must install the ActiveX control in order to access the DVR. Click the attention bar at the top of the main page and select “Install ActiveX Control”.


Address
http://192.168.0.102/
To help protect your security, Internet Explorer stopped this site from installing software on your computer. Click here for options...
If your browser do not support to download the ActiveX control, please click here.

3. In the warning box, click “Install”. The login page will appear.



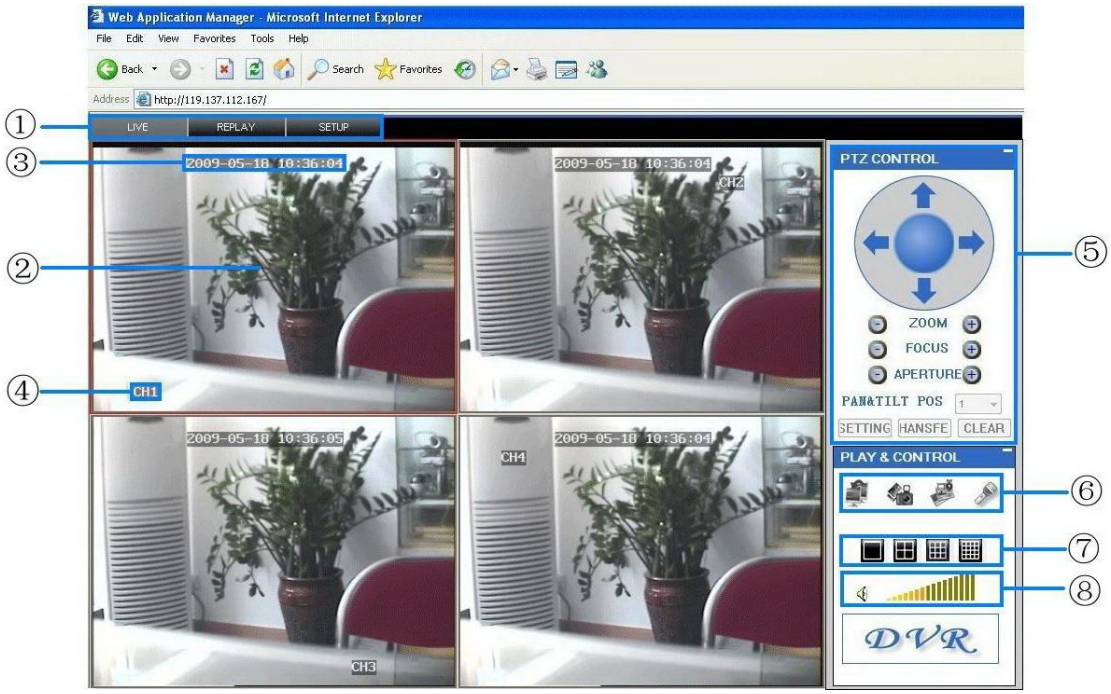
4. Leave the password field blank (default).

NOTE If you have enabled passwords on the DVR, enter the USER or ADMIN password. However, only the ADMIN can change settings and options on the system.

5. Select LAN or INTERNET from the drop-down menu and click LOGIN.

9.2 – MAIN SCREEN

Once logged in, the Remote Surveillance main screen appears in the browser.



REFERENCE	ITEM	DESCRIPTION
1	Modes	Choose from LIVE (default view), REPLAY and SETUP.
2	Main Screen	Main display screen for live viewing and playback.
3	Time Stamp	Time and date for each channel.
4	Channel	Appears in each channel to indicate channel number.
5	PTZ Control	Pan Tilt Zoom controls for compatible cameras.
6	Functions	Click icons to show / hide channels, take screen captures and record.
7	Display Modes	Click icons to view channels in full-screen, quad grid and split-screen configurations.
8	Volume / Mute	Select a channel (the current channel is outlined in **red**) and then click the bars to increase / decrease volume. Click the speaker icon to mute / unmute sound.*

* Audio capable cameras (not included) are required for audio listening and recording.

9.3 – LIVE VIEW

By default, the browser-based remote surveillance system opens in Live View mode (split-screen).

To use Live View:

1. Click LIVE at the top of the main screen.
2. Click the display mode icons to view the main screen in single-channel, quad or split-screen configurations. You can also double-click a channel at any time to view it in single-channel mode.
3. Click to show or hide all the channel windows.
4. Click to start / stop manual recording to your computer on ALL channels. For more details see section "*9.4 – Recording*" below.
5. Select a channel (the current channel is outlined in **red**) and then click the audio bars to increase / decrease listen-in volume. Click the speaker icon to mute / unmute sound.

NOTE The Talk function is not supported.

9.4 – RECORDING

You can record video directly to your PC using the remote surveillance software.

To record video to your PC:

- From Live View, click to start/stop manual recording to your PC on ALL channels.

TIP Recorded files are saved in `C:\DVR\[IP address]\Record\` by default.

9.5 – SUB MENU

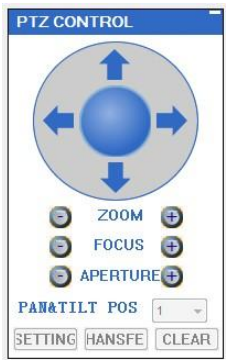
Right-click any channel to open the sub menu.

The sub menu contains the following options:

- Open Window
- Close
- Open All
- Close All
- Start Record
- Stop

9.6 – PTZ CONTROL

You must have a PTZ camera (not included) connected to the system in order to use the PTZ controls.



To control a PTZ camera:

1. Select the channel of the connected PTZ camera.
2. Click the ← or → navigation arrows to pan, and ↑ or ↓ keys to tilt the camera.
3. Click + / - to adjust zoom, focus, and aperture values.
4. Enter presets.
5. Click SETTING, HAND and CLEAR to further control presets.

9.7 – SCREEN CAPTURES

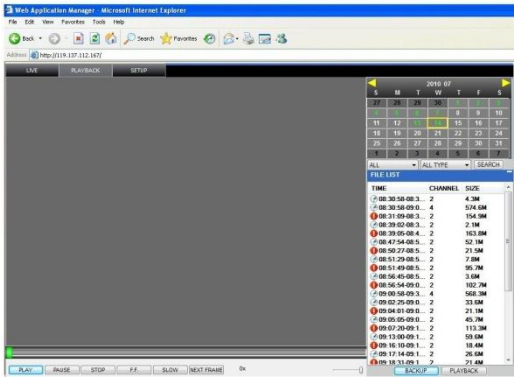
You can use the remote surveillance software to take a snapshot of the channels on the main display screen. Screen captures can be useful for your own records, or may be needed by authorities in case of a security incident.

To take a screen capture:

1. From Live Viewing, select the channel you want to capture. The selected channel will be highlighted in a red frame.
2. Click to take a screenshot.
3. Click OK in the confirmation window. Screen captures are saved as BMP files to `C:\DVR\` by default.

9.8 – PLAYBACK

Use the Replay menu to search and play back recorded video on the system.



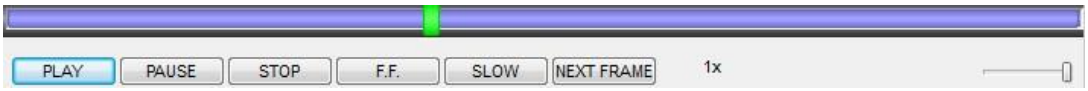
To use the replay menu:

1. Click REPLAY at the top of the main screen. The main screen will be grey.

2. Click REFRESH below the calendar to view the recorded files for the current month.

NOTE Normal recording is indicated by a clock icon; alarm recording (alarm, loss, and motion events) are indicated by an exclamation mark icon.

3. Double-click a file from the File List to play back the file in the main screen. The icon in the file list will change to ▶. You may control playback using the buttons at the bottom of the main screen.



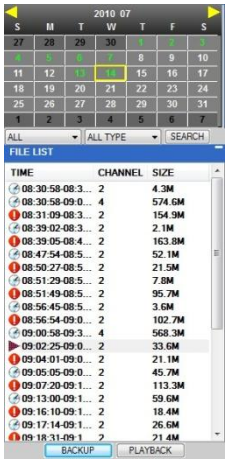
The **purple bar** indicates the download progress.

The **green marker** indicates playback progress. You can click and drag the playback marker (will turn from green to orange) to advance or rewind playback as needed.

ITEM	DESCRIPTION
PLAY	Play back the recording.
PAUSE	Switch between pause / play mode.
STOP	Stop playback.
F.F.	Fast forward playback.
SLOW	Slow playback.
NEXT FRAME	Pause at next frame.

9.9 – SEARCH

Use the calendar and drop-down menus to search for recorded video on your system.



1. Click < or > to change the month on the calendar. Dates with recorded video data will appear in **bold**.
2. Click the date. Recorded video files will populate the File List.
3. From the Channel drop-down menu, select a specific channel or select ALL CHANNEL and then click SEARCH.
4. From the Type drop-down menu, select COMMON (normal recording), ALARM, or ALL TYPE and then click SEARCH.
5. Double-click the file from the File List to playback the file in the main screen.

9.10 – REMOTE BACKUP

You can backup recorded video files from your system to your PC using the Replay menu in the remote surveillance software.

To backup files remotely:

1. Click PLAYBACK at the top of the main screen.
2. Double-click a file from the File List to begin playback.
3. Click BACKUP. The backup will be made to `C:\DVR\[IP Address]\Backup\` by default.

NOTE If you play back a file, you must wait for the file to load before attempting to back it up, otherwise you may receive an error message.

4. When backup is complete, click OK in the confirmation window. This window will show the save path of the backup file.

TIP Backup files are saved as ".264" files. Use the Player software included on the software CD to play these video files.

9.11 – REMOTE SETUP

Use the Setup tab to configure the settings of your system from a remote location.

NOTE If the Main Menu is open on the DVR system, you will not be able to make changes to settings from a Web browser.

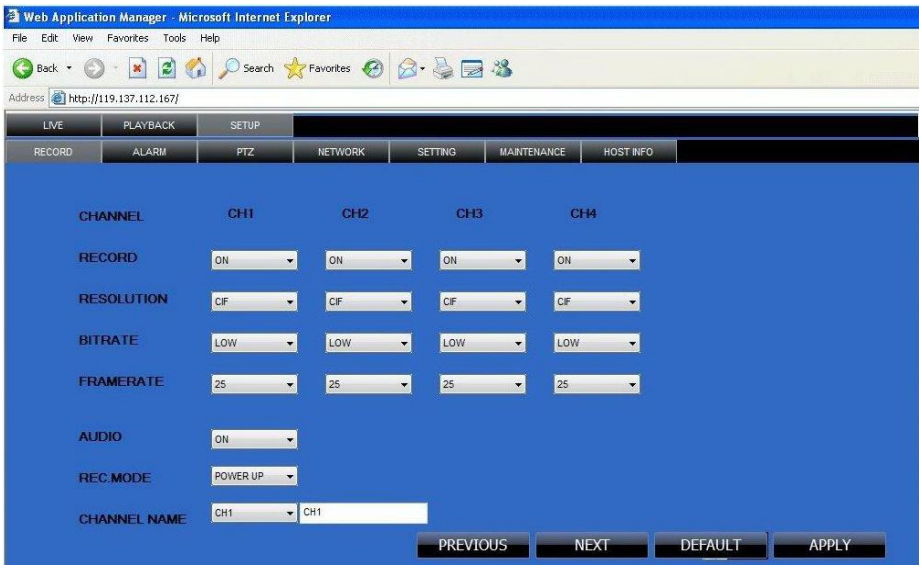
To open remote setup:

Click SETUP at the top of the main screen. The Remote Setup menu features the following tabbed options:

- RECORD
- ALARM
- PTZ
- NETWORK
- SETTING
- MAINTENANCE
- HOST INFO

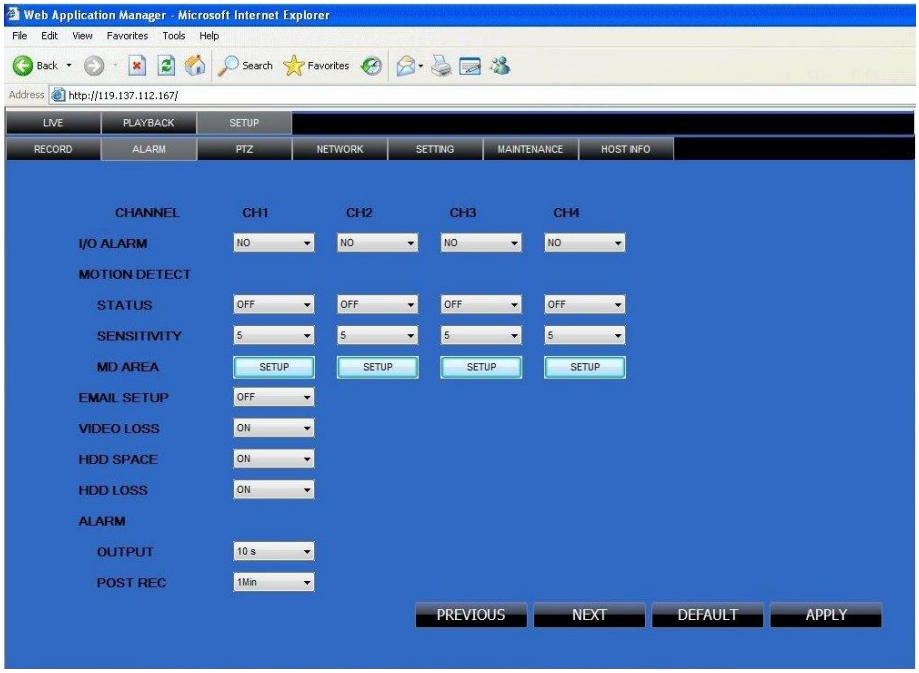
9.12 – RECORD

Click RECORD to access the setup interface and check or change settings in a similar manner to using the Graphical User Interface (GUI) on the DVR.


Web Application Manager - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://119.137.112.167/
LIVE PLAYBACK SETUP
RECORD ALARM PTZ NETWORK SETTING MAINTENANCE HOST INFO
CHANNEL CH1 CH2 CH3 CH4
RECORD ON ON ON ON
RESOLUTION CIF CIF CIF CIF
BITRATE LOW LOW LOW LOW
FRAMERATE 25 25 25 25
AUDIO ON
REC.MODE POWER UP
CHANNEL NAME CH1 CH1
PREVIOUS NEXT DEFAULT APPLY

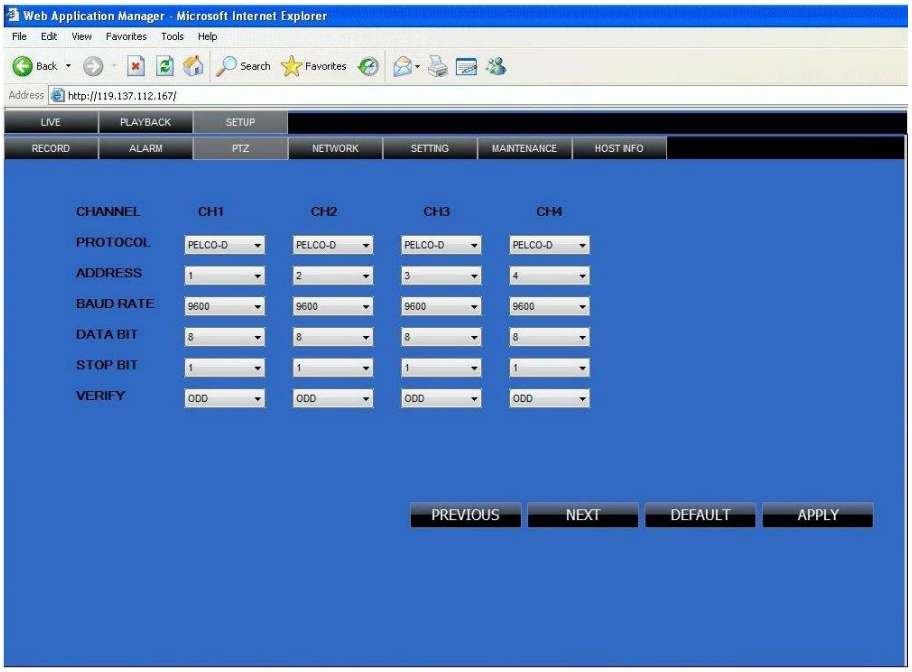
9.13 – ALARM SETTING

Click ALARM to access the setup interface and check or change settings in a similar manner to using the DVR's GUI.


Web Application Manager - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://119.137.112.167/
LIVE PLAYBACK SETUP
RECORD ALARM PTZ NETWORK SETTING MAINTENANCE HOST INFO
CHANNEL CH1 CH2 CH3 CH4
I/O ALARM NO NO NO NO
MOTION DETECT
STATUS OFF OFF OFF OFF
SENSITIVITY 5 5 5 5
MD AREA SETUP SETUP SETUP SETUP
EMAIL SETUP OFF
VIDEO LOSS ON
HDD SPACE ON
HDD LOSS ON
ALARM
OUTPUT 10 s
POST REC 1Min
PREVIOUS NEXT DEFAULT APPLY

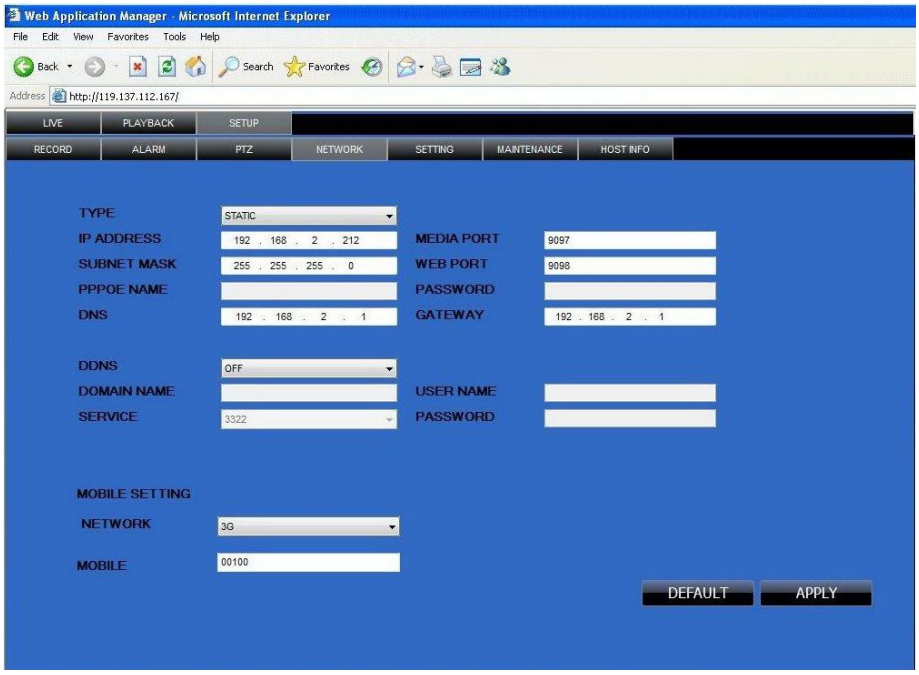
9.14 – PTZ

Click PTZ to access the setup interface and check or change settings in a similar manner to using the DVR's GUI.


Web Application Manager - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://119.137.112.167/
LIVE PLAYBACK SETUP
RECORD ALARM PTZ NETWORK SETTING MAINTENANCE HOST INFO
CHANNEL CH1 CH2 CH3 CH4
PROTOCOL PELCO-D PELCO-D PELCO-D PELCO-D
ADDRESS 1 2 3 4
BAUD RATE 9600 9600 9600 9600
DATA BIT 8 8 8 8
STOP BIT 1 1 1 1
VERIFY ODD ODD ODD ODD
PREVIOUS NEXT DEFAULT APPLY

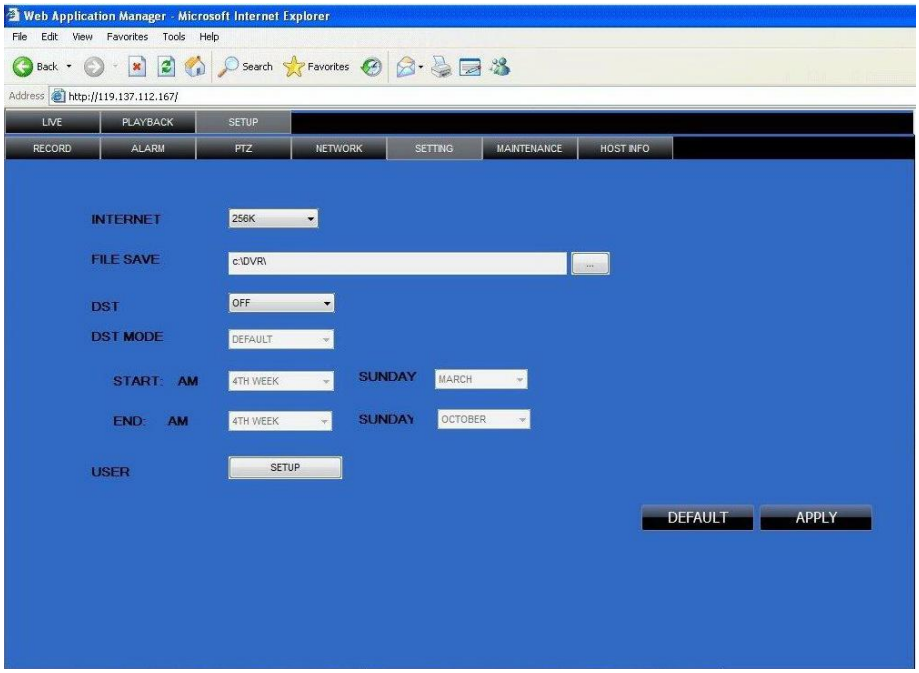
9.15 – NETWORK

Click NETWORK to access the setup interface and check or change settings in a similar manner to using the DVR's GUI.



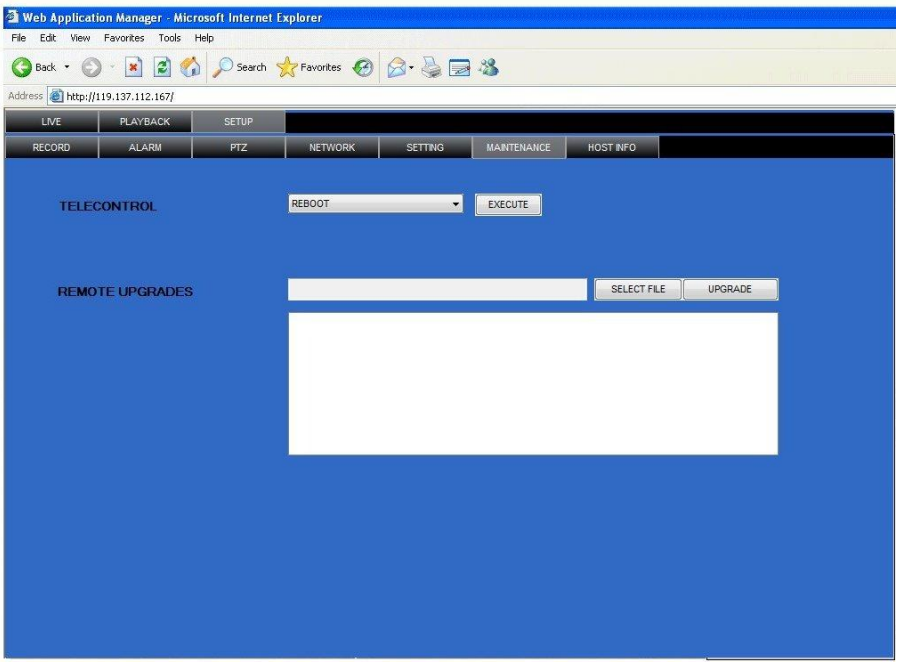
9.16 – SETTING

Click SETTING to access the setup interface and check or change settings in a similar manner to using the DVR's GUI.



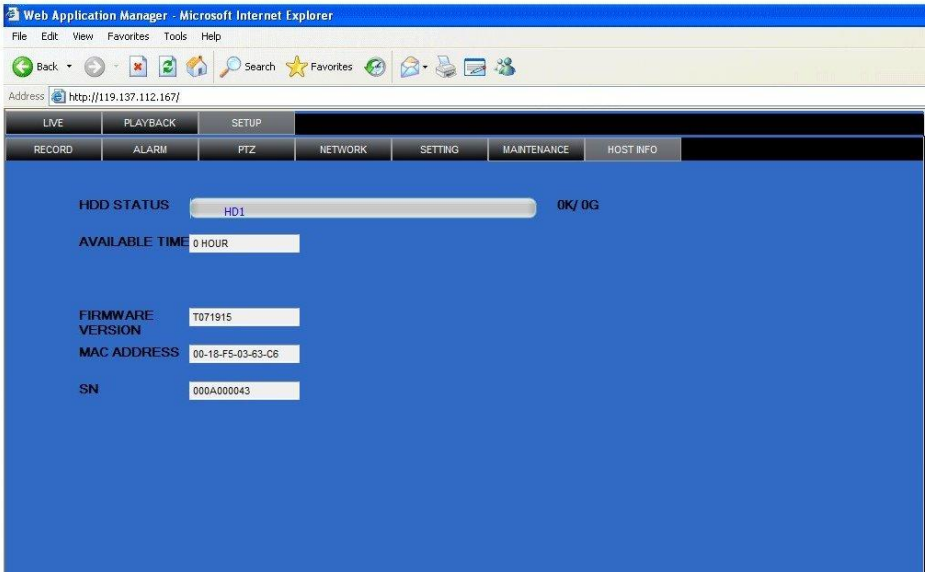
9.17 – MAINTENANCE

Click MAINTENANCE to access the system configuration interface. Here you can remotely reboot the DVR, format it's HDD, or upgrade the system's firmware.



9.18 – HOST INFO

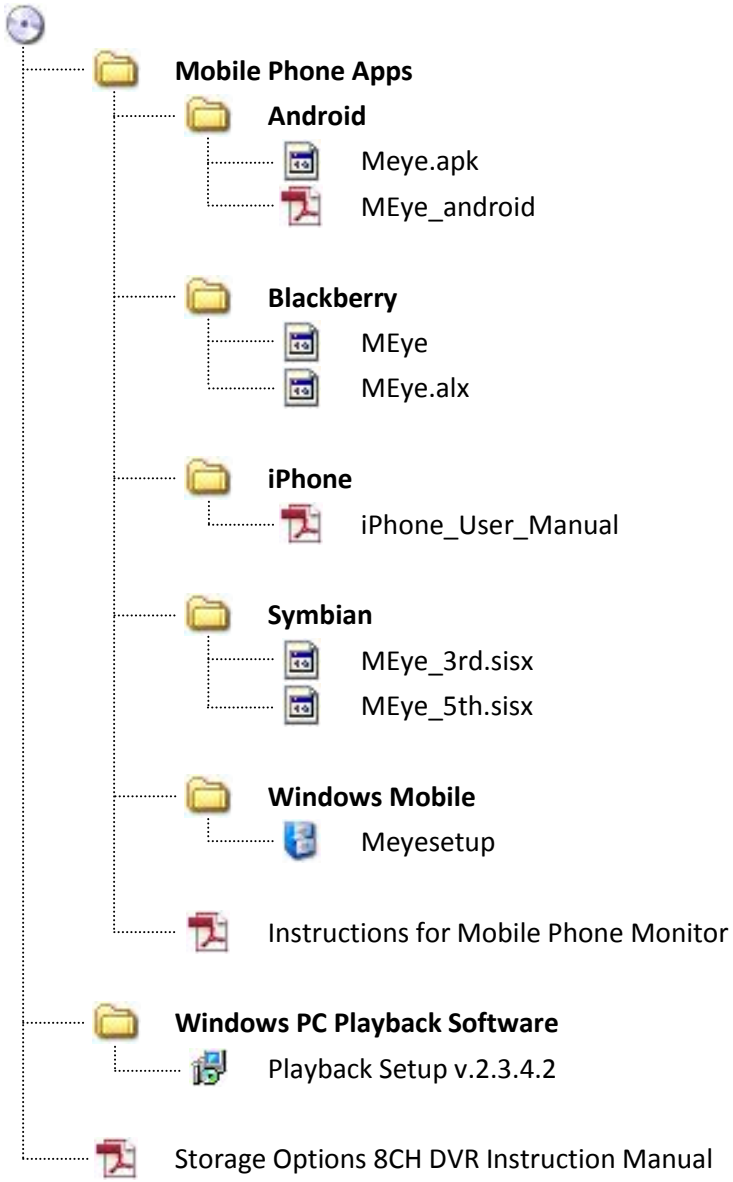
Click HOST INFO to access the system information interface. The interface includes information on the HDD status, remaining record time, firmware version and network MAC address. This page is for information only; there are no user-configurable settings here.



SOFTWARE CD

A CD featuring bonus software, manuals and apps has been included with the system. Place the disc in a CD / DVD or Blu-ray drive on your Windows computer and open “My Computer”.

Here you can browse the disc contents:



NOTE “Playback” software can be used to view “.264” recordings that have been backed up from the DVR to your computer. To convert these files to AVI format for use in other video playback software, please use the conversion tool included with “Playback”.

Please be advised, third party mobile phone apps are provided as a convenience only, and Storage Options cannot provide support on their functionality.

USING MEYE FOR MOBILE VIEWING

MEye is an application for Android and iPhone which can be used to view cameras on your network-connected DVR. The "*MEye.apk*" file is located on the software CD included with the DVR. Copy it to your Android device in the usual manner and install the program. For iPhone / iPad, please visit iTunes and search for "MEye".

Touch the MEye icon to load the program. On the bottom of the screen there is a settings icon:
Press this to enter the configuration menu:

Address: Enter the IP address of your DVR system here.
See Section "*8.12 – Network*" (page 40) for more information.

Port: This must match the "Mobile Port" assigned to the DVR.
See Section "*8.6 – Mobile*" (page 36) for more information.

Device Name: Enter a friendly device name (optional).

User ID: Enter the user ID you wish to sign in with.

Password: Enter the password related to the account (default is blank for the admin account).

Once these fields have been completed, press the Back button to return to the camera screen, then press the ▶ button to connect to the camera stream.

NOTE To view the DVR from a remote location (i.e. via mobile phone, not within the same network) you must enter your WAN IP address in the "Address" field, and you must have the Mobile Port opened on your router. To find your WAN IP and open the port, please refer to your router's instruction manual.

Pause / play the live video stream.

View the video in full screen mode.

Take a snapshot of the video (stored on memory card).

Enter the settings menu (see above)

Change camera group (1-4, 5-8, 9-12, 13-16).
Only cameras 1-8 are applicable on the Storage Options DVR.

Shows information about the MEye software.

1-4 / 5-8 Select the camera you wish to view.

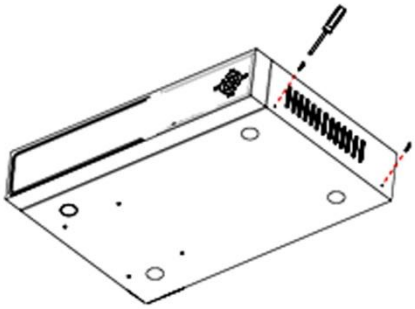
HARD DISK DRIVE INSTALLATION

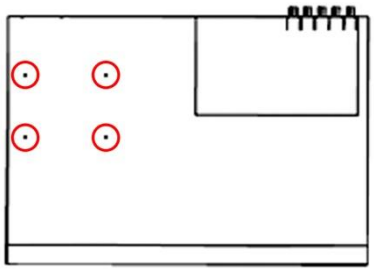
If you are at all hesitant to perform the following procedure, please refer to qualified service personnel.

Follow these steps to install a HDD:

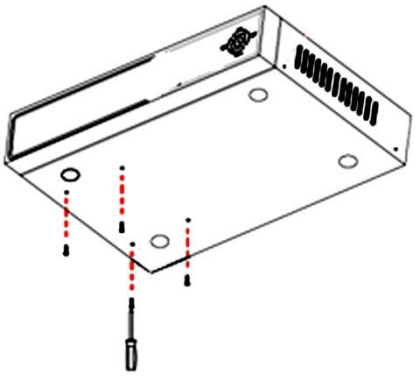
CAUTION	When working with electrostatic sensitive devices such as a Hard Disk Drive (HDD) or DVR unit, make sure you use a static-free workstation. Any electrostatic energy coming in contact with the hard disk or DVR can damage it permanently.

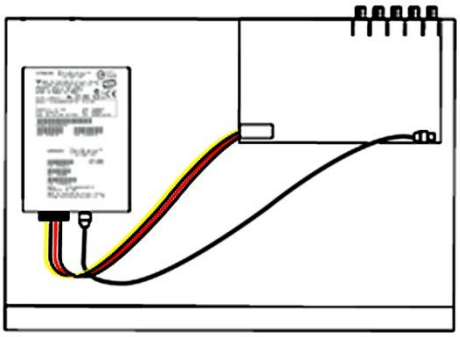
1. Remove the 7 screws (1 each side, 5 rear) which hold the cover in place, then slide it off. With the front panel facing you, the HDD mounts to the left of the chassis. There are 4 screw holes to mount the HDD.





2. Align the HDD with the mount points (circled in **red** above) and secure in place using 4 screws (provided) through the underside of the chassis.





3. Connect the SATA and POWER cables to the HDD.

CAUTION	SATA and POWER cables are designed to fit only one way. Do not force them into place or you may damage the HDD.

4. Replace the cover and secure it in place using the 7 screws removed in step 1.

5. You must format (prepare) the HDD before it can be used for recording.
See section "*7.7 – HDD Management*" (page 25) for more information.

TROUBLESHOOTING

If a solution to your problem is not listed below, please call our technical support team (see below).

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
• System is not receiving power, or is not powering up.	• Cable from power adapter is loose or unplugged.	• Confirm that all cables are connected correctly. • Confirm that the power adapter is securely connected to the back of the unit.
	• Cables are connected but system is not receiving sufficient power.	• Confirm the system is powered on (LED indicators on front panel should be on) • If the DVR is connected through a power bar or surge protector, try bypassing it and connecting power directly from the mains socket to the DVR. • Confirm that there is power at the outlet.
• Remote control is not detected by the system.	• Batteries in the remote control are drained.	• Install 2x fresh AAA 1.5V alkaline batteries in the remote control.
	• There are no batteries in the remote control.	
• Hard Disk Drive (HDD) is not detected by the system.	• HDD cables are loose or not connected properly.	• Remove the housing and check that the cables are firmly connected.
	• There is no HDD in the system.	• Open the housing and install a 3.5" SATA HDD (up to 2TB).
• HDD is full and the unit is no longer recording	• Overwrite mode is not enabled.	• From the Main Menu, select *HDD* → *Overwrite* → *Enable* and click apply.
• Mouse not detected by the system.	• Mouse cable not firmly connected to the system.	• Firmly connect the mouse cable to the "USB Mouse" port on the front panel of the DVR.
	• Mouse is not connected to the system.	
	• System needs to be reset.	• Power off the system (disconnect power cable). Firmly connect a USB mouse to the "USB Mouse" port on the front panel of the DVR. Reconnect the power cable to the DC 12V port.
• There is no picture on selected channels / camera picture is not being displayed.	• Camera cables are loose or have been disconnected.	• Check the camera video cable and connections. • Disconnect and reconnect the cable at both the system and camera ends. • Reconnect the camera to another channel or use another cable.
• There is no sound from attached cameras.	• Audio cables are loose or have been disconnected.	• Check the audio connections to the DVR.
	• Audio channels are disabled in the system menu.	• Check configuration in *Main Menu* → *Record* → *Audio*.
	• Volume on external speakers (not included) is low / muted / off.	• Increase volume on external speakers (not included).
• A "whirring" noise is coming from the system.	• Fan is active.	• This is normal – the exhaust fan is working.
• The system beeps at start up.		• This is normal.
• The system beeps during motion detection.	• Motion detection is enabled and the alarm buzzer is activated.	• Check configuration in *Main Menu* → *Advance*.
• E-Mail notifications are not being received.	• E-Mail notification is disabled.	• Open *Main Menu* → *Advance* → *Alarm*, click E-MAIL SETUP, under E-MAIL select ON.
	• SMTP settings are incorrect.	• Check SMTP server address, port, user name and password are correct.

TECHNICAL SUPPORT

Telephone: 0844 2487191 (UK-based) **E-Mail:** support@storageoptions.com

APPENDIX – PRODUCT SPECIFICATION

Digital Video Recorder (DVR)	
Video Compression:	H.264
Audio Compression:	ADPCM
Video Input:	8 channel (BNC)
Video Output:	1 channel (BNC)
Audio Input:	8 channel (phono)
Audio Output:	1 channel (phono)
Resolution:	PAL: CIF 352 x 288, HD1 704 x 288, D1 704 x 576 NTSC: CIF 352 x 240, HD1 704 x 240, D1 704 x 480
Video Frame Rate:	PAL: 25fps NTSC: 30fps
VGA Interface:	1 channel (D-Sub)
VGA Resolution Support:	800 x 600, 1024 x 768, 1280 x 1024, 1366 x 768, 1440 x 900
Alarm Input:	8 channel
Alarm Output:	1 output
Network:	Ethernet (10/100Mbps)
Monitoring Methods:	Internet, mobile phone, e-mail
Control:	Mouse, Remote control, DVR control
Backup:	USB and Network
HDD:	1 bay, up to 2TB
Security Feature:	Password protection, multiple user accounts
Power Supply:	DC 12V input
Operating Temperature:	-10 to 50°C approx
Humidity:	< 90%
Device Dimensions:	300 x 240 x 60mm (W x D x H)
Weight:	Net: 1.9KG; Gross: 2.9KG

NOTES

Storage Options

Storage Options 8 Channel DVR

Made in China